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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,330	11/24/2003	James B. McCormick	73643	4303
21888 7590 11/15/2007 THOMPSON COBURN, LLP ONE US BANK PLAZA SUITE 3500 ST LOUIS, MO 63101			EXAMINER	
			BOWERS, NATHAN ANDREW	
			ART UNIT	PAPER NUMBER
			1797	
			NOTIFICATION DATE	DELIVERY MODE
			11/15/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IPDOCKET@THOMPSONCOBURN.COM

,	Application No.	Applicant(s)					
		MCCORMICK, JAMES B.					
Office Action Summary	10/720,330	Art Unit					
omoo nodon cammary	Examiner A. Daviere						
The MAILING DATE of this communication app	Nathan A. Bowers	1797					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of the stress of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply b will apply and will expire SIX (6) MONTHS (6), cause the application to become ABAND(6)	ION. e timely filed from the mailing date of this communication. DNED (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>13 September 2007</u> .							
,	·						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) <u>6-14</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
7) Claim(s) is/are objected to.	6)⊠ Claim(s) <u>6-14</u> is/are rejected. 7)□ Claim(s) is/are objected to						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	ar						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Appli prity documents have been rec nu (PCT Rule 17.2(a)).	cation No eived in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/M	mary (PTO-413) ail Date nal Patent Application					
Paper No(s)/Mail Date	6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 1) Claims 6 and 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mathus (US 5856176) in view of Berry (US 5240854).

Mathus discloses a system of stackable tissue processing cassettes comprising a first cassette (Figure 1:20) that includes a bottom wall (Figure 1:22), a front wall, a back wall, and side walls forming a first container. This is described in column 2, line 50 to column 3, line 20. Column 4, lines 25-45 state that it is desirable to stack multiple cassettes without lids on top of each other, and column 5, lines 52-56 state that stacked cassettes include a plurality of apertures along the base walls and side walls to facilitate air circulation between the cassettes. However, it is unclear if these apertures are sufficient to allow liquids to flow from one cassette to the other.

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Berry discloses a plurality of stackable cell processing cassettes. Each cassette includes a cell culture chamber (Figure 2:24). Liquids in one culture chamber are allowed to communicate with liquids in other culture chambers using a plurality of apertures (Figure 2:20) in the base walls. This is described in column 2, line 67 to column 3, line 36.

Mathus and Berry are analogous art because they are from the same field of endeavor regarding stackable cell culture containers.

At the time of the invention, it would have been obvious to ensure that the base wall and side wall apertures disclosed by Mathus are capable of allowing liquids to flow between adjacent cassettes. This would have been beneficial because it would have allowed each cassette to receive fluid medium at a uniform and identical flow rate. Since each of the cassettes would share fluid medium, culture conditions in each stacked cassette would remain consistent.

2) Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mathus (US 5856176) in view of Berry (US 5240854) as applied to claim 6, and further in view of Intengan (US 4440301).

Mathus and Berry disclose the apparatus set forth in claim 6 as set forth in the 35 U.S.C. 103 rejection above, however, do not expressly disclose that the cassettes comprise a locking engagement that snaps together while providing a sensory effect.

Intengan discloses a stackable cassette that includes flexible leafs (Figure 5:50) and bosses (Figure 5:62) designed to interact with the leafs and bosses of similar cassettes when stacked. Column 2, lines 3-14 and column 3, line 40 to column 4, line 5 state that the leafs are flexible in nature, and that the leafs and bosses are "snapped" together in order to create a

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locking arrangement between multiple cassettes. It is known in the art and it is common knowledge that a "snapping" action produces an audible, sensory effect that signifies when a locking arrangement has been formed.

Mathus, Berry and Intengan are analogous art because they are from the same field of endeavor regarding stackable cassettes for biological samples.

At the time of the invention, it would have been obvious to ensure that the components of Mathus were flexible and capable of interlocking using a snapping action. In column 2, lines 8-14, Intengan teaches that this arrangement is beneficial because it allows the cassettes to be frictionally held together so that the cassettes will remain in an organized stack. In this way, the cassettes are arranged in an orderly fashion, and will be less prone to contamination and leakage during storage. The snapping action of the engagement between leaf and boss is also desirable because it produces an audible effect that verifies that a tight lock between cassettes has been produced.

Response to Arguments

Applicant's arguments filed 13 September 2007 with respect to the 35 U.S.C. 103 rejections involving the combination of Lafond and Intengan have been fully considered and are persuasive. Therefore, these rejections have been withdrawn. However, upon further consideration, a new ground of rejection is made in view of the combination of Mathus and Berry.

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It is understood that the combination of Mathus and Berry discloses all limitations set forth in the independent claims, including the use of a plurality of apertures extending through the bottom of the second cassette.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan A. Bowers whose telephone number is (571) 272-8613. The examiner can normally be reached on Monday-Friday 8 AM to 5 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gladys Corcoran can be reached on (571) 272-1214. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NAR

SUPERVISORY PATENT EXAMINER